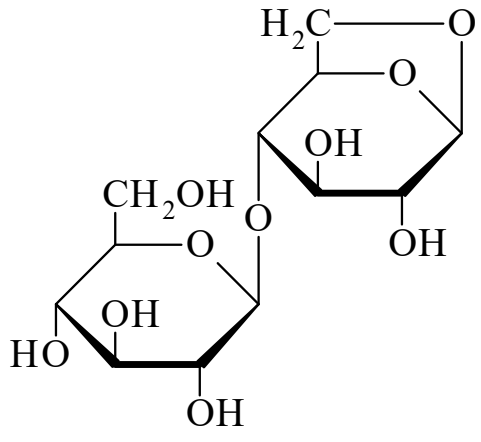
>>**Entry Name: 1,6-Anhydrocellobiose**

Synonym(s): 1,6-Anhydro-4-*O*-β-D-glucopyranosyl-β-D-glucopyranose. β-D-Glucopyranosyl(1→4)-1,6-anhydro-β-D-glucopyranose. Cellobiosan



CAS Registry Number: 35405-71-1

Molecular Formula: $C_{12}H_{20}O_{10}$
Molecular Weight: 324.284
Accurate Mass: 324.10565
Percentage Composition: C 44.45%; H 6.22%; O 49.34%
Physical Description: Hygroscopic solid
Melting Point: Mp 98-102°
Optical Rotation: $[\alpha]_D^{25}$ –74 (c, 2.1 in H_2O)

>>**Derivative:** Hexa-Ac

CAS Registry Number: 38631-27-5

Molecular Formula: $C_{24}H_{32}O_{16}$
Molecular Weight: 576.507
Accurate Mass: 576.16904
Percentage Composition: C 50.00%; H 5.59%; O 44.40%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 142-143°
Optical Rotation: $[\alpha]_D^{20}$ –54.2 (c, 1.25 in $CHCl_3$)

References:

Montgomery, E.M. *et al.*, *J.A.C.S.*, 1943, **65**, 1848, *(synth)*
Wollwage, P.C. *et al.*, *J. Polym. Sci., Part A*, 1971, **9**, 2877, *(synth)*
Tejima, S. *et al.*, *Chem. Pharm. Bull.*, 1972, **20**, 2036, *(hexa-Ac)*